

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

18. (previously presented) An isolation transformer comprising:
a multi-layer, multi-winding primary coil fabricated by stacking coil layers formed by winding an insulated, covered, copper wire;
a multi-layer, multi-winding secondary coil fabricated by stacking coil layers formed by winding an insulated, covered copper wire;
a core that forms a magnetic path between the primary coil and the secondary coil; and
a plurality of short-circuit rings made of conducting thin films sandwiched between the coil layers of at least one of the primary and secondary coils.
19. (previously presented) The isolation transformer of claim 18, wherein the short-circuit rings are sandwiched between each of the coil layers.
20. (previously presented) The isolation transformer of claim 18, wherein the short-circuit rings are sandwiched between selected coil layers.
21. (previously presented) The isolation transformer of claim 18, wherein the coil layers of the primary and the secondary coils are sheet-type coil layers and are formed by winding the copper wire spirally.

22. (previously presented) The isolation transformer of claim 21, wherein the short-circuit rings are sandwiched between each of the coil layers.

23. (previously presented) The isolation transformer of claim 21, wherein the short-circuit rings are sandwiched between selected coil layers.

24. (previously presented) The isolation transformer of claim 18, wherein the coil layers of the primary and the secondary coils are cylinder-type coil layers and are formed by winding the copper wire cylindrically.

25. (previously presented) The isolation transformer of claim 24, wherein the short-circuit rings are sandwiched between each of the coil layers.

26. (previously presented) The isolation transformer of claim 24, wherein the short-circuit rings are sandwiched between selected coil layers.

27. (currently amended) An isolation transformer, comprising:
a multi-layer, multi-winding primary coil fabricated by stacking coil layers formed by winding an insulated, covered copper wire;
a multi-layer, multi-winding secondary coil fabricated by stacking coil layers formed by winding an insulated, covered copper wire;
a core forming a magnetic path between the primary coil and the secondary coil;
and

~~at least one short-circuit ring formed by coating~~ wherein the copper wire forming
of at least one of the primary and secondary coils is coated with a thin conducting film.

28. (New) The isolation transformer of claim 27, wherein said primary and secondary coils are not concentrically wound.

29. (New) The isolation transformer of claim 18, wherein said primary and secondary coils are not concentrically wound.